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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/537,384	06/03/2005	Richard N Fargo	60469-220;OT-5079	4539	
David J. Gaskey Carlson, Gaskey \$ Olds			EXAMINER		
			SINGH, KAVEL		
400 w. maple i Birmingham, N			ART UNIT PAPER NUMBER		
			3651		
			MAIL DATE	DELIVERY MODE	
			11/18/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/537,384 FARGO ET AL.

Office Action Comments	, , , , , , , , , , , , , , , , , , ,					
Office Action Summary	Examiner	Art Unit				
	KAVEL P. SINGH	3651				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence ad	ldress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D/ Extensions of time may be available under the provisions of 37 CFR 1.1 after 53% (6) MONTH's from the mailing date of the communication.  If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will by statute, Any reply, received by the Office later than three months after the mailing carrier jutent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim- till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 Ju	ly 2008.					
2a) ☐ This action is FINAL. 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
` <u> </u>						
4) Claim(s) 1-26 is/are pending in the application.	un from consideration					
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	with from consideration.					
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority arradi do Greior 3 i ro(a)	(4) 5. (1).				
1.☐ Certified copies of the priority documents	s have been received					
Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior			Stage			
application from the International Bureau	•		9-			
* See the attached detailed Office action for a list		d.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) L Interview Summary	(PTO-413)				

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date 5/03/05.

Paper No(s)/Mail Date. \_\_ 5) Notice of Informal Patent Application

6) Other: \_\_\_

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#### DETAILED ACTION

## Response to Arguments

Applicant's arguments with respect to claim1-25 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4,6,8,13,1415,16,18,19, and 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Boltrek U.S. Patent No. 3,677,388 in view of Hart U.S. Patent No. 6,516,940.

Claim 1, Boltrek teaches an inner side adapted to engage a drive member (23) (C3 L1-2); and an outer side including a plurality of teeth (13) that are adapted to engage a corresponding portion of a step chain (11), the outer side teeth each including a base and a pliable projection (13+) distal from the base (Fig. 2), Boltrek does not teach the outer side teeth that are pliable, but Hart teaches a urethane drive belt (65). It would be obvious to one of ordinary skill to use urethane as taught by Hart in order to make the belt pliable to increase the flexibility and fitting into the step chain.

Claim 2, Boltrek teaches the compressible (13+) projections are rounded (Fig. 2).

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Claim 3, Boltrek teaches the teeth (13+) include a generally concave surface extending between the projection and the base (Fig. 2).

Claims 4,6,15, and 16, Boltrek teaches the teeth (13+) each have an engaging surface profile that includes the projection, the engaging surface (71) including a first concave portion having a first radius of curvature beginning adjacent the base, a second concave portion having a second radius of curvature adjacent the first portion and a third concave portion having a third radius of curvature extending between the second portion and the projection (Fig. 2) (C3 L23-28).

Claim 8, Boltrek teaches the teeth (13+) each include a relief near the projection that increases the compliance of the tooth near the projection (C3 L38-40).

Claims 13 and 26, Boltrek teaches a step chain (11) having a plurality of links (13) each having a plurality of engaging members (C2 L70-71); a drive mechanism (23); and a belt having an inner side that cooperates with the drive mechanism and an outer side including a plurality of teeth (13+) having engaging surfaces that are at least partially concave, a portion of the teeth elastically deforming responsive to contact with the engaging members on the step chain wherein movement of the drive mechanism causes movement of the belt which causes movement of the step chain (Fig. 2) (C3 L1-5) Boltrek does not teach the outer side teeth that are pliable, but Hart teaches a urethane drive belt (65). It would be obvious to one of ordinary skill to use urethane as taught by Hart in order to make the belt pliable to increase the flexibility and fitting into the step chain.

Claim 14, Boltrek teaches the step chain (13) engaging members include teeth (13+) having a convex surface that is at least partially received within the concave portion of the belt teeth engaging surfaces (Fig. 2).

Claims 18 and 19, Boltrek teaches the first, second and third portions establish the concave portion of the engaging surface and the projection establishes a convex portion of the engaging surface (Fig 2) (C3 L35-36).

Claims 9 and 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boltrek U.S. Patent No. 3,677,388 in view of Hart U.S. Patent No. 6,516,940 in further view of Novak U.S. Patent No. 5,625,021.

Claim 9, Boltrek teaches the teeth, but Novak teaches a belt comprise a urethane material (C7 L12-13). It would be obvious to one of ordinary skill to use a urethane belt as taught by Novak into the invention of Boltrek since urethane is known to be strechable and will conform to fit into the engaging surface.

Claims 23,24, and 25, Boltrek does not teach as Novak teaches the inner side and outer side are on opposite sides of a belt body and wherein the belt body comprises the urethane material and a projection near an end of the teeth spaced from the body (C7 L7-12). It would have been obvious to one of ordinary skill to use urethane material for the belt as taught by Novak into the invention of Boltrek in order to allow the belt to wear, but not break during use.

### Allowable Subject Matter

Claim 5,7, 10,11,12,17,20,21, and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Kavel P. Singh whose telephone number is (571) 272-2362. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KPS

/Gene Crawford/ Supervisory Patent Examiner, Art Unit 3651 Application/Control Number: 10/537,384 Page 6

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